## Monitoring Data Record

Project Title: _	Twin Oaks (R-2302)	COE	Action ID:	199920857
Stream Name:	Perennial stream flowing into the	e New River DW	Q Number:	990491
City, County a	nd other Location Information: Sta	<u>1. 39+50 – 48+50 </u>	on US 21 S of	Twin Oaks
Date Construct	tion Completed: N/A 8 dig		Monitoring Y	ear: (1) of 1
Ecoregion:	8 diş	git HUC unit	05050001	
USGS Quad N	ame and Coordinates:			
Rosgen	i Ciassification:			
	ect: 1334' Urban or Rural:			
	ATA collected by: M. Green, D. Jen	<u>nkins</u>	_ Date: <u>_5/17/0</u>	<u>15</u>
Applicant Info				
	NCDOT Roadside Environmental			
	s: 1425 Rock Quarry Road Raleigh			
	one Number: (919) 861-3772	Email addres	ss: <u>mlgreen@d</u>	lot.state.nc.us
Consultant Info				
Name:				
Addres	SS:			
Telepho	one Number:	Email addres		
Project	t Status: Complete			
stream. This n year after final Section 1. PHOT (Monitoring at a Attach number, letter, cross section le document phys summer (at rep recommend the	: NCDOT shall visually monitor the monitoring shall include visual monitoring shall include visual monitoring shall include visual monitoring shall include visual monitoring.  **CO REFERENCE SITES** **all levels must complete this section**) **site map showing the location and etc.*) assigned to each reference photocations, should show both banks a sical stability should be taken in with presentative locations. Attach photocation boards of reference photo locations at the property of the p	angle of all reference to location. Phoenical include an upsenter. Photos taken tos and a descripted in each photo to	ence photos winter and down to document ion of each refusion identify located	th a site designation (name, provided for all structures and vnstream view. Photos taken to vegetation should be taken in Serence photo or location. We ion.
	ce photos have been taken at this			
<b>Individual fro</b>	om whom additional photos can b	e obtained (nam	e, address, ph	ione):
Other Informat	tion relative to site photo reference	: Photo 9 documen	its undercutting o	f streambank.
If r	required to complete Level 3 monitor	oring only stop he	ere; otherwise,	complete section 2.

Section 2. PLANT SURVIVAL Attach plan sheet indicating reference photos.							
Identify specific problem areas (missing, stressed, damaged or dead plantings):							
Estimated causes, and proposed/required remedial action:							
ADDITIONAL COMMENTS: No problems at this time. Stream is highly vegetated with various thick grasses. Trees that were noted are black willow, sweetgum, and dogwood.							

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

## Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

For the most part the stream is very stable at this time. There is some undercutting of the streambank noted in photo 9 due to high water flows or hillside runoff on the lower portion of the stream. As stated in the 2<sup>nd</sup> quarter report there is some severe hillside erosion above the silt fence away from the stream near STA 40. However, erosion has not altered the stream at this time. Repairs to the roadway embankment have not taken place. Erosion control measures are still continuing to be maintained to prevent sediment loss. NCDOT will continue to monitor this issue.

Date	Station	Station	Station	Station	Station
Inspected	Number	Number	Number	Number	Number
Structure	STA. 40				
Type					
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour	Hillside				
erosion	erosion above				
present?	the silt fence.				
Other					
problems					
noted?					

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

## Twin Oaks



Photo 1



Photo 3



Photo 5 3<sup>rd</sup> Quarter – May 2005



Photo 2



Photo 4



Photo 6

## Twin Oaks



Photo 7



Photo 8



Photo 9 (undercutting of streambank)